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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,470	12/29/2004	Jean-Christophe Jaillant	4590-367	2685
33308 7590 02/20/2007 LOWE HAUPTMAN GILMAN & BERNER, LLP 1700 DIAGNOSTIC ROAD, SUITE 300 ALEXANDRIA, VA 22314			EXAMINER	
			TO, TUAN C	
			ART UNIT	PAPER NUMBER
			3663	
	•			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MOI	NTHS	02/20/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
Office Author Commence	10/519,470	JAILLANT, JEAN-CHRISTOPHE				
Office Action Summary	Examiner	Art Unit				
	Tuan C. To	3663				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (6(a)). In no event, however, may a reply be tirrill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•	:				
1) Responsive to communication(s) filed on 04 De	ecember 2006.					
	action is non-final.					
·=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3 and 6-9</u> is/are rejected.						
7) Claim(s) <u>4, 5, and 10-13</u> is/are objected to.						
Application Papers	· '					
· _						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on 29 December 2004 is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	-···					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Trip The bath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P10-152.				
Priority under 35 U.S.C. § 119	·					
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a))-(d) or (f).				
 1 Certified copies of the priority documents have been received. 2 Certified copies of the priority documents have been received in Application No 						
					3. Copies of the certified copies of the priority documents have been received in this National Stage	
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
•		-				
		•				
Attachment(s)		·				
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date					
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Other:						
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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, and 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Langner et al. (US 6696980B1) and in view of Chen et al. (US 6995690B1).

As to claims 1 and 6, Langner et al. directs to a navigation system/method comprising: a display (140) (Langner et al., column 4, lines 59) that displays the feeler line and ground path (Langner et al., figure 1). While patent drawings are not drawn to scale, relationships clearly shown in the drawings of a reference patent cannot be disregarded in determining the patentability of claims. See <u>In re Mraz</u>, 59 CCPA 866, 455 F.2d 1069, 173 USPQ 25 (1972).

The secondary reference to Chen et al. teaches another navigation/method of an aircraft including the act of computing a ground path that an aircraft would follow in a turn at the maximum rate applicable to the landing phase of the aircraft (Chen et al., figure 11; column 5, lines 32-45).

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the system/method as taught by Langner et al. to include the teachings of Chen et al. so that the pilot crews are well prepared for a landing.

As to claims 2 and 3, Langner et al., does not describe "a turn command when the feeler line is tangible to the ground path to be captured", however, such the turn command acted by a pilot is inherently included in the action of a pilot during controlling of the aircraft. The pilot is provided the cockpit instrument panels system with the display to show whether the feeler line is tangential to the ground path (see figure 1).

As to claim 7, the reference to Chen et al. teaches that the ground path displayed on the display along with the aircraft icon (Chen et al., figure 4). Therefore, the ground path (or feeler line) is inherently computed by the computer system of the aircraft.

As to claims 8 and 9, the reference to Langner et al. provides a cockpit instrument panels with buttons (Langner et al, figure 1) for controlling the display of feeler line (Langner et al, figure 1, the line located in the middle of the display (140)).

Allowable Subject Matter

During the prior search, the examiner has realized the prior art fails to disclose or suggest the limitations of claims 4, 5, and 10-13, thus they are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

Applicant's arguments with respect to claims 1-3, and 6-9 have been considered but are most in view of the new ground(s) of rejection.

Conclusions

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan C To whose telephone number is (571) 272-6985. The examiner can normally be reached on from 8:00AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner

Tuan & To

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February 13, 2007

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